

**Dr. Vassilis (Basil) Psiloglou**

**SENIOR RESEARCHER** at IERSD/NOA

*Ph.D.* in Atmospheric Physics, University of Athens, Greece, 1997

*M.Sc.* in Meteorology / Environmental Physics, University of Athens, Greece, 1992

*B.Sc.* in Mathematics, University of Athens, Greece, 1989

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**PROFESSIONAL EXPERIENCE**

- ❑ *April 2010 - present:* Senior Researcher at the Institute of Environmental Research & Sustainable Development (IERSD)/National Observatory of Athens (NOA), Greece
- ❑ *March 2006 – April 2010:* Associate Researcher at the Institute of Environmental Research & Sustainable Development/National Observatory of Athens, Greece
- ❑ *February 2001 – March 2006:* Research Scientist at the Institute of Environmental Research & Sustainable Development/National Observatory of Athens, Greece
- ❑ *December 1997 – January 2001:* Research Associate at the Institute of Environmental Research & Sustainable Development/National Observatory of Athens, Greece
- ❑ *September 1991 – March 1996:* Acting as Research Fellow in the Institute of Environmental Research & Sustainable Development/National Observatory of Athens, Greece.

**AREAS OF EXPERTISE**

- ❑ Solar Energy. Development of models for the prediction of solar radiation on horizontal and tilted surfaces. Models for the calculation of ground reflected solar radiation.
- ❑ Investigation of climatic parameters' evolution. Analysis of Electricity Demand Characteristics; correlation with meteorological parameters for future projection using RCM estimations.
- ❑ Atmospheric Physics.
- ❑ Environmental Management and Risk Assessment using GIS techniques
- ❑ Air Pollution and Meteorological Instrumentation.
- ❑ Renewable Energy Sources. Photovoltaic Energy, Biomass Energy.

**HONORS / FELLOWSHIPS / OTHER RELEVANT EXPERIENCE**

- ❑ State Scholarships Foundation Fellowship, 1988-1989
- ❑ NATO-CCMS Fellowship, 1993-1997.
- ❑ British Council Traveling Fellowship, September 1994.
- ❑ European Space Agency/European Research Institute (ESA/ESRIN) Traveling Fellowship, August 2003.
- ❑ Member of Hellenic Mathematical Society
- ❑ Member of Hellenic Meteorological Society
- ❑ Member of American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) (until 2016)

## PUBLICATIONS IN PEER REVIEW INTERNATIONAL JOURNALS

- O. Soupiona, A. Papayannis, P. Kokkalis, R. Foskinis, G. S. Hernández, P. Ortiz-Amezcu, M. Mylonaki, C.A. Papanikolaou, N. Papagiannopoulos, S. Samaras, S. Groß, R.E. Mamouri, L. Alados-Arboledas, A. Amodeo, and B. Psiloglou, “EARLINET observations of Saharan dust intrusions over the northern Mediterranean region (2014–2017): properties and impact on radiative forcing”, *Atmospheric Chemistry and Physics*, Vol. 20, pp. 15147-15166, 2020.
- S. Manzoni, G. Maneas, A. Scaini, B. E. Psiloglou, G. Destouni and S. W. Lyon, “Understanding coastal wetland conditions and futures by closing their hydrologic balance: the case of the Gialova lagoon, Greece.”, *Hydrology and Earth System Sciences*, Vol. 24, pp. 3557-3571, 2020.
- H.D. Kambezidis, and B. E. Psiloglou, “Climatology of the Linke and Unsworth–Monteith Turbidity Parameters for Greece: Introduction to the Notion of a Typical Atmospheric Turbidity Year.”, *Applied Sciences*, Vol. 10(11), pp. 4043, 2020.
- H.D. Kambezidis, B. E. Psiloglou, D. G. Kaskaoutis, D. Karagiannis, K. Petrinoli, A. Gavriil and K. Kavadias “Generation of typical meteorological years for 33 locations in Greece: adaptation to the needs of various applications.”, *Theoretical and Applied Climatology*, Vol. 141, pp. 1313-1330, 2020.
- P. Argyrakis, A. Ganas, S. Valkaniotis, V. Tsioumas, N. Sagias and B. E. Psiloglou, “Anthropogenically induced subsidence in Thessaly, central Greece: new evidence from GNSS data.”, *Natural Hazards*, Vol. 102, pp. 179–200, 2020.
- K. Dimitriou, E. Liakakou, M. Lianou, B. E. Psiloglou, P. Kassomenos, N. Mihalopoulos and E. Gerasopoulos, “Implementation of an aggregate index to elucidate the influence of atmospheric synoptic conditions on air quality in Athens, Greece”, *Air Quality, Atmosphere and Health*, Vol. 13(4), pp. 447–458, 2020.
- B. E. Psiloglou, H. D. Kambezidis, D. G. Kaskaoutis, D. Karagiannis and J.M. Polo, “Comparison between MRM simulations, CAMS and PVGIS databases with measured solar radiation components at the Methoni station, Greece”, *Renewable Energy*, Vol. 146, pp. 1372-1391, 2020.
- D. G. Kaskaoutis, U. C. Dumka, A. Rashki, B. E. Psiloglou, A. Gavriil, A. Mofidi, K. Petrinoli, D. Karagiannis and H. D. Kambezidis, “Analysis of intense dust storms over the eastern Mediterranean in March 2018: Impact on radiative forcing and Athens air quality”, *Atmospheric Environment*, Vol. 209, pp. 23-39, 2019.
- D. G. Kaskaoutis, A. Rashki, U. C. Dumka, A. Mofidi, H. D. Kambezidis, B.E. Psiloglou, D. Karagiannis, K. Petrinoli, and A. Gavriil, “Atmospheric dynamics associated with exceptionally dusty conditions over the eastern Mediterranean and Greece in March 2018”, *Atmospheric Research*, Vol. 218, pp. 269-284, 2019.
- D. Katsanos, A. Bougiatioti, E. Liakakou, D.G. Kaskaoutis, I. Stavroulas, D. Paraskevopoulou, M. Lianou, B.E. Psiloglou, E. Gerasopoulos, C. Pilinis, and N. Mihalopoulos, “Optical properties of near-surface urban aerosols and their chemical tracing in a Mediterranean city (Athens)”, *Aerosol and Air Quality Research*, Vol. 19, pp. 49-70, 2019.
- A. Panopoulou, E. Liakakou, V. Gros, S. Sauvage, N. Locoge, B. Bonsang, B. E. Psiloglou, E. Gerasopoulos, and N. Mihalopoulos, “Non-methane hydrocarbon variability in Athens during wintertime: the role of traffic and heating”, *Atmospheric Chemistry and Physics*, Vol. 18, pp. 16139-16154, 2018.
- K. Pantavou, B. E. Psiloglou, S. Lykoudis, A. Mavrakis and G. Nikolopoulos, “Perceived air quality and particulate matter pollution based on field survey data during

- a winter period”, *International Journal of Biometeorology*, Vol. 62, pp. 2139-2150, 2018.
- S. Kazadzis, D. Founda, B. E. Psiloglou, H. Kambezidis, N. Mihalopoulos, A. Sanchez-Lorenzo, C. Meleti, P.I. Raptis, F. Pierros, and P. Nabat, “Long-term series and trends in surface solar radiation in Athens, Greece”, *Atmospheric Chemistry and Physics*, Vol. 18, pp. 2395-2411, 2018.
  - I. P. Raptis, S. Kazadzis, B. E. Psiloglou, N. Kouremeti, P. Kosmopoulos, and A. Kazantzidis, “Measurements and model simulations of solar radiation at tilted planes, towards the maximization of energy capture”, *Energy*, Vol. 130, pp. 570-580, 2017.
  - I.X. Tsiros, F. Droulia, E. Thoma and B. E. Psiloglou, “Testing and application of simple semi-analytical models for soil temperature estimation and prediction in environmental assessments”, *Journal of Environmental Science and Health* (part A), Vol. 52(9), pp. 837-841, 2017.
  - H.D. Kambezidis, B. E. Psiloglou, D. Karagiannis, U.C. Dumka and D.G. Kaskaoutis, “Meteorological Radiation Model (MRM v6.1): Improvements in diffuse radiation estimates and new approach for implementation of cloud products”, *Renewable and Sustainable Energy Reviews*, Vol. 74, pp. 616-637, 2017.
  - L. Fourtziou, E. Liakakou, I. Stavroulas, C. Theodosi, P. Zarmpas, B. Psiloglou, J. Sciare, T. Maggos, K. Bairachtari, A. Bougiatioti, E. Gerasopoulos, R. Sarda-Estève, N. Bonnaire, N. Mihalopoulos: “Multi-tracer approach to characterize domestic wood burning in Athens (Greece) during wintertime”, *Atmospheric Environment*, Vol. 148, pp. 89-101, 2017.
  - K. Pantavou, S. Lykoudis and B. E. Psiloglou, “Air quality perception of pedestrians in an urban outdoor Mediterranean environment: A field survey approach”, *Science of the Total Environment*, Vol. 574, pp. 663-670. 2017.
  - H.D. Kambezidis, B. E. Psiloglou, K.A. Kavadias, A.G. Paliatsos and A. Bartzokas, “Development of a Greek solar map based on solar model estimations”, *Sun and Geosphere*, Vol. 11/2, pp. 137-141, 2016.
  - D.G. Kaskaoutis, H.D. Kambezidis, U.C. Dumka and B. E. Psiloglou, “Dependence of the spectral Diffuse-Direct irradiance ratio on aerosol spectral distribution and single scattering albedo”, *Atmospheric Research*, Vol. 178-179, pp. 84-94, 2016.
  - H.D. Kambezidis, B. E. Psiloglou, D. Karagiannis, U.C. Dumka and D.G. Kaskaoutis “Recent improvements of the Meteorological Radiation Model for solar irradiance estimates under all-sky conditions”, *Renewable Energy*, Vol. 93, pp. 142-158, 2016.
  - C. Giannakopoulos, B. Psiloglou, G. Lemesios, D. Xevgenios, C. Papadaskalopoulou, A. Karali, K.V. Varotsos, M. Zachariou-Dodou, K. Moustakas, K. Ioanou, M. Petrakis and M. Loizidou “Climate change impacts, vulnerability and adaptive capacity of the electrical energy sector in Cyprus”, *Regional Environmental Change*, Vol. 16, pp. 1891-1904. 2016.
  - H.D. Kambezidis, L.D. Melas, D.H. Kampeziidou and B. E. Psiloglou, “Effects of tropospheric Nitrogen Oxide on incoming solar radiation”, *Journal of Energy Research Updates*, Vol. 2, pp. 14-17, 2015.
  - K. Karavana-Papadimou, B. E. Psiloglou, S. Lykoudis and H.D. Kambezidis, “Model for estimating atmospheric ozone content over Europe for use in solar radiation algorithms”, *Global NEST journal*, Vol. 15(2), pp. 152-162, 2013.
  - B. E. Psiloglou, I. Larissi, M. Petrakis, A. Paliatsos, A. Antoniou and L. Viras, “Case studies on summertime measurements of O<sub>3</sub>, NO<sub>2</sub> and SO<sub>2</sub> with a DOAS system in an urban semi-industrial region in Athens, Greece”, *Environmental Monitoring and Assessment*, Vol. 185(9), pp. 7763-7774. 2013.

- A. Ganas, E. Lagios, G. Petropoulos and B. Psiloglou, “Thermal Imaging of Nisyros Volcano (Aegean Sea) using ASTER data: Estimation of radiative Heat Flux”, *Int. Journal of Remote Sensing*, Vol. 31(15), pp. 4033-4047, 2010.
- P. Kassomenos, G. Mertzanos, M. Petrakis, M. Xylaggoura and B. E. Psiloglou, “Hospital admissions and air mass types in Athens, Greece”, *Int. Journal of Environment and Pollution*, Vol. 40, pp. 236-247, 2010.
- D. Founda, S. Lykoudis, B. E. Psiloglou, M. Petrakis and C. Zerefos, “Observations of the atmospheric surface layer parameters during the total solar eclipse of March 29th, in Greece”, *Meteorologische Zeitschrift*, Vol. 18, pp. 489-494, 2009.
- B. E. Psiloglou, C. Giannakopoulos, S. Majithia and M. Petrakis, “Factors affecting electricity demand in Athens, Greece and London, UK: A comparative assessment”, *Energy*, Vol. 34, pp. 1855-1863, 2009.
- B. E. Psiloglou and H. D. Kambezidis, Estimation of the ground albedo for the Athens area, Greece, *Journal of Atmospheric and Solar-Terrestrial Physics*, Vol. 71, pp. 943-954, 2009.
- H. S. Bagiorgas, E. Chaideftou, M. N. Assimakopoulos, G. Mihalakakou, B. E. Psiloglou and E. Michalaina, “The use of wind energy for passive cooling applications in Western Greece”, *Intelligent Buildings International*, Vol. 1, pp. 209-221, 2009.
- P. Zanis, E. Katragkou, M. Kanakidou, B. E. Psiloglou, S. Karathanasis, M. Vrekoussis, E. Gerasopoulos, I. Lisaridis, K. Markakis, A. Poupkou, V. Amiridis, D. Melas, N. Mihalopoulos and C. Zerefos, “Effects on surface atmospheric photo-oxidants over Greece during the total solar eclipse event of 29 March 2006”, *Atmospheric Chemistry and Physics*, Vol. 7, pp. 6061-6073, 2007.
- B. E. Psiloglou and H. D. Kambezidis, “Performance of the meteorological radiation model during the solar eclipse of 29 March 2006”, *Atmospheric Chemistry and Physics*, Vol. 7, pp. 6047-6059, 2007.
- C. Zerefos, E. Gerasopoulos, L. Tsagouri, B. E. Psiloglou, A. Belehaki, T. Herekakis, A. Bais, S. Kazadzis, C. Eleftheratos, N. Kalivitis, and N. Mihalopoulos, “Evidence of gravity waves into the atmosphere during the March 2006 total solar eclipse”, *Atmospheric Chemistry and Physics*, Vol. 7, pp. 4943-4951, 2007.
- C. Giannakopoulos and B. E. Psiloglou, “Trends in energy load demands for Athens, Greece: weather and non-weather related factors”, *Climate Research*, Vol. 31, pp. 97-108, 2006.
- C. Chalkias, M. Petrakis, B. E. Psiloglou and M. Lianou, “Modelling of light pollution in suburban areas using remotely sensed imagery and GIS”, *Journal of Environmental Management*, Vol. 79, pp. 57-63, 2006.
- M. Petrakis, B. E. Psiloglou, I. Keramitsoglou, C. Cartalis and M. Lianou, “Evaluation of forest fire risk and fire extinction difficulty at the mountainous park of Vikos-Aoos, Northern Greece, using Remote Sensing and GIS techniques”, *Int. Journal of Risk Assessment and Management*, Vol. 5(1), pp. 50-65, 2005.
- M. Petrakis, B. E. Psiloglou, P. Kassomenos, and C. Cartalis, “Summertime measurements of benzene and toluene in Athens, using a DOAS system”, *Journal of the Air & Waste Management Association*, Vol. 53, pp. 1052-1064, 2003.
- G. Mihalakakou, B. E. Psiloglou, M. Santamouris and D. Nomidis, “Application of renewable energy sources in the Greek islands of the South Aegean Sea”, *Renewable Energy*, Vol. 26, pp. 1-19, 2002.
- B. E. Psiloglou, M. Santamouris and D. N. Asimakopoulos, "Atmospheric broadband model for computation of solar radiation at the earth's surface. Application to

- Mediterranean climate", *Pure and Applied Geophysics (PAGEOPH)*, Vol. 157, pp. 829-860, 2000.
- M. Santamouris, G. Mihalakakou, B. E. Psiloglou, G. Eftaxias, and D. N. Asimakopoulos, "Modelling the global solar radiation on the earth surface using atmospheric deterministic and intelligent data driven techniques", *Journal of Climate*, Vol. 12, pp. 3105-3116, 1999.
  - B. E. Psiloglou, M. Santamouris and D. N. Asimakopoulos, "Predicting the spectral and broadband aerosol transmittance in the atmosphere for solar radiation modelling", *Renewable Energy*, Vol. 12, pp. 259-279, 1997.
  - B. E. Psiloglou, C. A. Balaras, M. Santamouris, and D. N. Asimakopoulos, "Calculation of apparent ground albedo for the estimation of global radiation on tilted surfaces, for four European locations", *Int. Journal of Solar Energy*, Vol. 18, pp. 231-258, 1997.
  - H. D. Kambezidis, B. E. Psiloglou and A. Synodinou, "Comparison between measurements and models for solar radiation on tilted surfaces in Athens, Greece", *Renewable Energy*, Vol. 10, pp. 505-518, 1997.
  - B. E. Psiloglou, C. A. Balaras, M. Santamouris, and D. N. Asimakopoulos, "Evaluation of different radiation and albedo models for the prediction of solar radiation incident on inclined surfaces, for four European locations", *Journal of Solar Energy Engineering*, A.S.M.E., U.S.A., Vol. 118, pp. 183-189, 1996.
  - B. E. Psiloglou, M. Santamouris, C. Varotsos and D. N. Asimakopoulos, "A new parameterization of the integral ozone transmission", *Solar Energy*, Vol. 56, pp. 573-581, 1996.
  - B. E. Psiloglou, M. Santamouris and D. N. Asimakopoulos, "On the broadband Rayleigh scattering in the atmosphere, for solar radiation models", *Renewable Energy*, Vol. 6, pp. 429-433, 1995.
  - B. E. Psiloglou, M. Santamouris and D. N. Asimakopoulos, "Predicting the broadband transmittance of the uniformly mixed gases (CO<sub>2</sub>, CO, CH<sub>4</sub>, O<sub>2</sub>, N<sub>2</sub>O) in the atmosphere, for solar radiation models", *Renewable Energy*, Vol. 6, pp. 63-70, 1995.
  - B. E. Psiloglou, M. Santamouris and D. N. Asimakopoulos, "On the atmospheric water vapor transmission function for solar radiation models", *Solar Energy*, Vol. 53(5), pp. 445-453, 1994.
  - H. D. Kambezidis, B. E. Psiloglou and C. Gueymard, "Measurements and models for total solar irradiance on inclined surface in Athens, Greece", *Solar Energy*, Vol. 53(2), pp. 177-185, 1994.

#### SELECTED PUBLICATIONS IN SCIENTIFIC BOOK CHAPTERS

- H. D. Kambezidis and B. E. Psiloglou, "The Meteorological Radiation Model (MRM): Advancements and Applications", In: "Modeling Solar Radiation at the Earth's Surface. Recent Advances", by Viorel Badescu (Ed.), Springer Verlag, 2008. (ISBN: 2008978-3-540-77454-9)
- M.D. Agnew, C.M. Goodess, D. Hemming, C. Giannakopoulos, S.B Salem, M. Bindi, M.N. Bradai, C. Dibari, H. El-Askary, M. El-Fadel, M. El-Raey, R. Ferrise, J.M. Grünzweig, A. Harzallah, A. Hattour, M. Hatzaki, D. Kanas, E. Kostopoulou, P. Lionello, T. Oweis, C. Pino, B. Psiloglou, S.S. Abed, A. Sánchez-Arcilla, M. Senouci, M.Z. Taleb, and A. Tanzarella, "Physical and Socio-economic Indicators", In: "Regional Assessment of Climate Change in the Mediterranean: Volume 3: Case Studies, Chapter 3", "Advances in Global Change Research 52", by A. Navarra and L. Tubiana (Eds.), Springer Science+Business Media, pp. 39-60, 2013.

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- D. Hemming, M.D. Agnew, C.M. Goodess, C. Giannakopoulos, S.B. Salem, M. Bindi, M.N. Bradai, L. Congedi, C. Dibari, H. El-Askary, M. El-Fadel, M. El-Raey, R. Ferrise, J.M. Grünzweig, A. Harzallah, A. Hattour, M. Hatzaki, D. Kanas, P. Lionello, M. McCarthy, C.M. Aranda, T. Oweis, J.P. Sierra, B. Psiloglou, M. Reale, A. Sánchez-Arcilla, M. Senouci and A. Tanzarella, "Climate Impact Assessments", In: "Regional Assessment of Climate Change in the Mediterranean: Volume 3: Case Studies, Chapter 4", "Advances in Global Change Research 52", by A. Navarra and L. Tubiana (Eds.), Springer Science+Business Media, pp. 61-104, 2013.

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- C.M. Goodess, M.D. Agnew, C. Giannakopoulos, D. Hemming, S.B. Salem, M. Bindi, M.N. Bradai, L. Congedi, C. Dibari, H. El-Askary, M. El-Fadel, M. El-Raey, R. Ferrise, D. Founda, J.M. Grünzweig, A. Harzallah, M. Hatzaki, G. Kay, P. Lionello, C.M. Aranda, T. Oweis, J.P. Sierra, B. Psiloglou, M. Reale, A. Sánchez-Arcilla, M. Senouci, A. Tanzarella and K.V. Varotsos, "Integration of the Climate Impact Assessment with Future Projections", In: "Regional Assessment of Climate Change in the Mediterranean: Volume 3: Case Studies, Chapter 4", "Advances in Global Change Research 52", by A. Navarra and L. Tubiana (Eds.), Springer Science+Business Media, pp. 105-162, 2013.

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#### CONFERENCES – BOOKS - TECHNICAL REPORTS

- Publications in International Conferences: 122
- Total Publications in Scientific Books: 14
- Technical Reports: 65

#### PARTICIPATION IN INTERNATIONAL PROJECTS

- **MED-COLD**: Turning climate-related information into added value for traditional Mediterranean grape, olive and durum wheat food systems, H2020, Grant No 776467.
- **TERRACESCAPE**: Employing Land Stewardship to transform terraced landscapes into green infrastructures to better adapt to climate change, LIFE16 CCA/GR/000050, 2017-2021.
- **URBANProof**: Characterization of Urban Air Quality Indoor/Outdoor Particulate Matter Chemical Characteristics and Source-to-Inhaled Dose Relationships.
- **ADAPT2CLIMA**: Adaptation to Climate change Impacts on the Mediterranean islands' Agriculture, LIFE14 CCA/GR/000928, 2015-2019.
- **CYPADAPT**: Development of a national strategy for adaptation to climate change adverse impacts in Cyprus, LIFE10ENV/CY/000723, 2011-2014.
- **PROMITHEAS-4**: "Knowledge transfer and research needs for preparing mitigation/adaptation policy portfolios.", 7th Framework Programme, (2011 - 2013)
- **CIRCE**: "Climate Change and Impact Research: the Mediterranean Environment". 6th Framework Programme, (2007 - 2011).
- **DeSurvey-IP**: "A Surveillance System for Assessing and Monitoring Desertification". 6th Framework Programme, (2005 - 2010)

- ❑ **ENSEMBLES**: "ENSEMBLE based predictions of climate changes and their impacts", 6th Framework Programme, (2004 - 2009).
- ❑ **RISCMASS**: Méthodologies pour la gestion du risqué d'éboulement et des mouvements du sol avec scénarios de politique d'assurance, Interreg IIIb, (2000 - 2006).
- ❑ **APMoSPHERE**: "Air Pollution Modelling for Support to Policy on Health, Environment and Risk Management in Europe", (2002 - 2005).
- ❑ **MICE**: "Modelling the Impacts of Climate Extremes", (2002 - 2003).
- ❑ **URBAN AEROSOL**: "Characterization of Urban Air Quality Indoor/Outdoor Particulate Matter Chemical Characteristics and Source-to-Inhaled Dose Relationships", (2000 - 2003).
- ❑ **MANTLE**: "Mapping Night time Light emissions in the EU using Satellite observed visible-near infrared emissions as a policy tool" (Information Society Technologies Programme, (2000 - 2002).
- ❑ **ISOLE**: "Island Satellite Observation for local Exploitation", (CEO Programme for Environment and Climate, 1998 - 2000)
- ❑ **PRIMAVERA**: "Park Resources Information Management Via Environmental Remotely sensed data Analysis", (CEO Programme for Environment and Climate, 1998 - 2000).

#### **OTHER**

- ❑ Performance assessment of the new intergrated sensor SPN1 by Delta-T Devices (UK) for simultaneous measurements of global and diffuse radiation components at Athens area. In collaboration with Delta-T Devices company.
- ❑ Establishing a new actinometric network, for simultaneous measurements of global and diffuse components of incoming solar radiation received on a horizontal plane, incorporating the SPN1 sensor. Locations available: Methoni (South Peloponnese), Filotas (Florina, West Macedonia) and Larissa (Thessaly). Data form this instrument can be used for calculating the solar energy received by a plane of any slope and orientation, for PV installations, applications in buildings, and finally for radiation-models performance validation.
- ❑ Collaboration with the International Atomic Energy Agency (IAEA), for collecting monthly rain water samples, from both IERSD's meteorological stations in Athens, at Thission and Penteli sites, participating in the Global Networks of Isotopes in Precipitation (GNIP) Water Resources programme.
- ❑ Reviewer in a number of international journals.

**TOTAL CITATIONS : 912** (Scopus)

**CITATIONS EXCLUDING SELF-CITATIONS OF ALL AUTHORS : 728** (Scopus)

**H-INDEX : 16** (Scopus)

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